

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:09:07 ON 13 MAR 2006
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101828,291

=> s alkene?
L2 95199 ALKENE?

=> s olefin?
L3 169040 OLEFIN?

=> s l2 or l3
L4 222390 L2 OR L3

=> s (remov? or separati?
UNMATCHED LEFT PARENTHESIS '(REMOV?'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (remov? or separati?)
1201050 REMOV?
218010 SEPARATI?
L5 1391954 (REMOV? OR SEPARATI?)

=> s (gas stream or effluent?)
1483163 GAS
147418 STREAM
17542 GAS STREAM
(GAS (W) STREAM)
118257 EFFLUENT?
L6 135027 (GAS STREAM OR EFFLUENT?)

=> s absorb?
L7 404886 ABSORB?

=> s adsorb?
L8 322510 ADSORB?

=> s l7 or l8
L9 710211 L7 OR L8

=> s l6 and l9
L10 10347 L6 AND L9

=> s l10 and l5
L11 5927 L10 AND L5

=> s l11 and l4
L12 115 L11 AND L4

=> s cool?
L13 694651 COOL?

=> s compress?
L14 274178 COMPRESS?

=> s l14 or l13
L15 948416 L14 OR L13

=> s l15 and l12
L16 23 L15 AND L12

=> d tot cbib abs

L16 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

2005:1155592 Document No. 143:406268 **Separating an olefin** from a **gas stream** and part of epoxidation process and propene process. Gobbel, Hans-Georg; Schultz, Henning; Schultz, Peter; Patrascu, Renate; Schulz, Malte; Weidenbach, Meinolf (BASF Aktiengesellschaft, Germany; The Dow Chemical Company). U.S. Pat. Appl. Publ. US 2005240038 A1 20051027, 18 pp. (English). CODEN: USXXCO. APPLICATION: US 2004-828291 20040421.

AB In an **olefin gas stream**, the **gas stream** comprising the **olefin** and ≥ 1 other component, the title method comprises (i) **compressing** and **cooling** the **gas stream**, (ii) separating the **olefin** from the **gas stream** by **absorbing** the **olefin** in an **absorbent**, (iii) separating the **olefin** from the **absorbent** by desorption, where **compressing** or **cooling** or **compressing** and **cooling** in (i) is carried out at least twice.

L16 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

2005:556670 Document No. 143:214117 Process for **olefin removal** from refinery gas. Zhao, Lan; Zu, Jun; Zheng, Weiping (Beijing New Baron Petrochemical Equipment Inc., Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1544582 A 20041110, No pp. given (Chinese). CODEN: CNXXEV. APPLICATION: CN 2010-115033 20031120.

AB The title process comprises reacting refinery gas with benzene in a catalytic reactor, **cooling** the product gas, separating, condensing the gaseous fractions, feeding it into a return tank, pumping the condensed fractions to a separating tower for return flow, feeding the non-condensed gas into refrigerator, feeding the gas phase in an **absorbing** tower, pressurizing the **effluent** from the bottom of the separating tower, and feeding into benzene tower, feeding the non-condensed gas **cooled** in the separating tower top into absorption tower for downward counter current contact with the absorption agent, thus **absorbing** the heavy components therein.

L16 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

2002:486173 Document No. 137:47604 Adsorptive-extractive process for the **removal** of water and heteroatom-containing compounds from hydrocarbons for their purification. Johnson, Marvin M.; Randolph, Bruce

=> d his

(FILE 'HOME' ENTERED AT 13:15:59 ON 13 MAR 2006)

FILE 'REGISTRY' ENTERED AT 13:16:12 ON 13 MAR 2006

L1 0 S PROPYLENE OXIDE/CN
L2 1 S PROPYLENE OXIDE/CN
L3 1 S HYDROGEN PEROXIDE/CN

FILE 'CAPLUS' ENTERED AT 13:17:29 ON 13 MAR 2006

L4 274178 S COMPRESS?
L5 20079 S L3/RCT
L6 3027 S L2/P
L7 205 S L5 AND L6
L8 2 S L4 AND L7
L9 169040 S OLEFIN?
L10 95199 S ALKENE?
L11 222390 S L9 OR L10
L12 78901 S PROPENE?
L13 181177 S PROPYLENE?
L14 236227 S L12 OR L13
L15 414540 S L14 OR L11
L16 6740 S L4 AND L15
L17 441091 S (MULTIPLE OR PLURAL)
L18 54 S L17 (5A) L16
L19 54 S L17 AND L16
L20 279605 S L12 OR L11
L21 694651 S COOL?
L22 20413 S L4 AND L21
L23 426 S L22 AND L20
L24 1256 S COMPRESSIONS
L25 0 S L23 AND L24
L26 10 S COOLING TWICE
L27 0 S L26 AND L23
L28 0 S COOLING MORE THAN ONCE
L29 0 S PLURLA COOLING?